

4.2 Homework

Name: _____

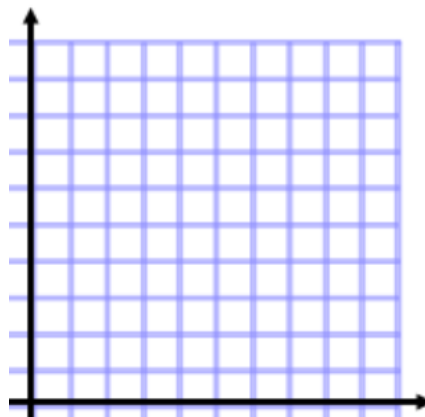
The table shows how many fat grams there are in some hamburgers sold by national chain restaurants.

Nutrition Facts

Burger	Saturated fat (g)	Total fat (g)
Burger King Bacon Double Cheeseburger	17	34
Burger King Original WHOPPER® Sandwich with Cheese	18	49
Hardee's 2/3 lb Double Thickburger	38	90
Hardee's 2/3 lb Bacon Cheese Thickburger	40	96
Jack in the Box Bacon Ultimate Cheeseburger	29	70.5
Jack in the Box Jumbo Jack with Cheese	16	41.5
McDonald's Big Mac	11	33
McDonald's Quarter Pounder	8	21
Wendy's Jr. Hamburger	3.5	9
Wendy's Classic Single with Everything	7	19

(www.burgerking.com, www.hardeesrestaurants.com, www.jackinthebox.com, www.mcdonalds.com, www.wendys.com)

1. Make a scatterplot of the data.



2. What are the independent and dependent variables?

Independent: _____

Dependent: _____

3. Using a ruler, draw a line of best fit.

4. Now pick 2 points on your line. (hint: they don't have to be your original data points!)

5. Find the slope of the line, using your 2 points. Show your work!

6. Estimate what the y-intercept is for your line and write an equation in slope-intercept form. $y = mx + b$

7. What is the real world meanings of the slope of your equation?

Show your work!

8. Predict the total fat in a burger with 20 grams of saturated fat.



9. Predict the saturated fat in a burger with 50 grams of total fat.

This is a ceramic sculpture of a hamburger. Imagine how much total fat this burger would have if it were real!
Hamburger (1983) by David Gilhooly, Collection of Harry W. and Mary Margaret Anderson, Photo by M. Lee Fatheree